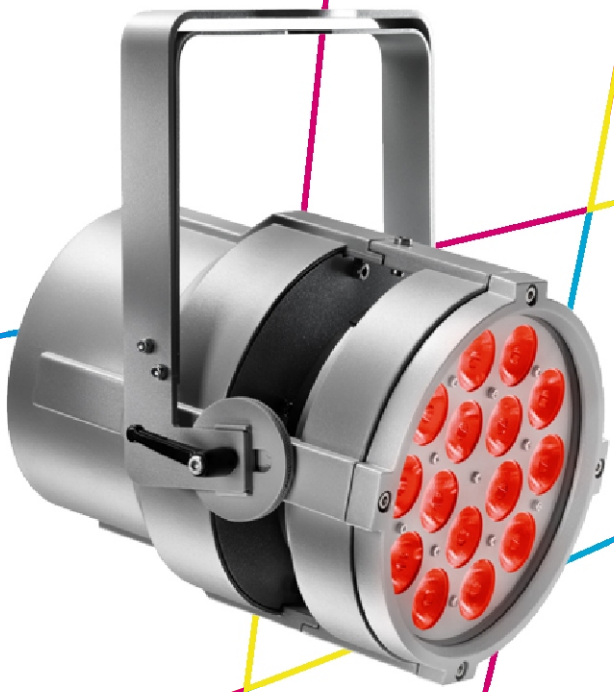
TITAN PLUS SOLO



User's Manual Rel 2.0 **GB**

D.T.S. Illuminazione srl - ITALY
http://www.dts-lighting.it

DTS
The Lighting Company

Made in Italy

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DESCRIPTION

TITAN PLUS SOLO is a new range of compact self-contained LED projectors designed for fixed and mobile installations either indoor or outdoor.
All models are made on aluminium offering high resistance to mechanical stress, and IP20 or IP65 protection rating.
TITAN PLUS SOLO range features an integrated power supply and is therefore extremely easy to set up and use.
2 integrated power supply with different protection rating are available: IP20 (Powerconn + XLR connectors), and IP65 (3 x 1.5 sq mm Main AC cable 1 meter lenght + XLR Male / Female cable connectors 1 meter cable lenght).
TITAN PLUS is also available without integrated power supply.
Three dedicated lenses sets (Spot, Medium flood, Wide flood) are available for each model, offering different light beam projection angles with even coverage of lighted areas.
TITAN PLUS SOLO can be controlled via any DMX lighting console.
TITAN PLUS range comprises 3 models, which employ different sets of LEDs tailored for distinct applications: TITAN PLUS SOLO FULL COLOUR, TITAN PLUS SOLO RGB and TITAN PLUS SOLO WHITE.
TITAN PLUS SOLO FULL COLOUR: 15 x 3W Full Colour LEDs; 16 million colours; 3600 Lux at 2 m (spot lenses); linear colour temperature 2800°K ÷ 6500°K; 16 selectable types of White.
The 15 Full Colour LEDs all generate the same colour at the same time, so that the illuminated object is not only uniformly lit, but also projects no false shadows.
TITAN PLUS SOLO RGB: 54 x 1W P4 LEDs (12 x Red, 15 x Green, 15 x Blue, 12 x Amber); 16 million colours; 8400 Lux at 2 m (spot lenses); linear colour temperature 2800°K ÷ 6500°K; 16 selectable types of White. The LEDs distribution pattern guarantees high mixing quality for RGB colours and a uniform projection on surfaces, no matter what colour is used.
TITAN PLUS SOLO WHITE: 54 x 1W P4 LEDs (42 White, 12 x Amber); 12600 Lux at 2 m (spot lenses); linear colour temperature 2800°K ÷ 6500°K; 16 selectable types of White.
TITAN PLUS SOLO WHITE is ideal in various applications where colour is not needed and white light must have well defined features.

Full colour LEDs Power supply on board

03.LDB030S.F10	TITAN PLUS SOLO IP20 FULLCOLOUR SPOT LENSES
03.LDB030S.F25	TITAN PLUS SOLO IP20 FULLCOLOUR MEDIUM FLOOD LENSES
03.LDB030S.F40	TITAN PLUS SOLO IP20 FULLCOLOUR WIDE FLOOD LENSES
03.LDB036C.F10	TITAN PLUS SOLO C IP65 FULLCOLOUR SPOT LENSES
03.LDB036C.F25	TITAN PLUS SOLO C IP65 FULLCOLOUR MEDIUM FLOOD LENSES
03.LDB036C.F40	TITAN PLUS SOLO C IP65 FULLCOLOUR WIDE FLOOD LENSES

Red/Green/Blue/Amber LEDs Power supply on board

03.LDB030S.T10	TITAN PLUS SOLO IP20 RGBA SPOT LENSES
03.LDB030S.T25	TITAN PLUS SOLO IP20 RGBA MEDIUM FLOOD LENSES
03.LDB030S.T40	TITAN PLUS SOLO IP20 RGBA WIDE FLOOD LENSES
03.LDB036C.T10	TITAN PLUS SOLO C IP65 RGBA SPOT LENSES
03.LDB036C.T25	TITAN PLUS SOLO C IP65 RGBA MEDIUM FLOOD LENSES
03.LDB036C.T40	TITAN PLUS SOLO C IP65RGBA WIDE FLOOD LENSES

3 X White /Amber LEDs Power supply on board

03.LDB030S.W10	TITAN PLUS SOLO IP20 WHITE SPOT LENSES
03.LDB030S.W25	TITAN PLUS SOLO IP20WHITE MEDIUM FLOOD LENSES
03.LDB030S.W40	TITAN PLUS SOLO IP20WHITE WIDE FLOOD LENSES
03.LDB036C.W10	TITAN PLUS SOLO C IP65 WHITE SPOT LENSES
03.LDB036C.W25	TITAN PLUS SOLO C IP65 WHITE MEDIUM FLOOD LENSES
03.LDB036C.W40	TITAN PLUS SOLO C IP65 WHITE WIDE FLOOD LENSES

LED technology
TITAN PLUS SOLO FULL COLOUR: 15 x Full Colour LEDs; 3600 Lux / 2 m (spot lenses)
TITAN PLUS SOLO RGB: 54 x 1W P4 LEDs (12 x Red, 15 x Green, 15 x Blue, 12 x Amber; 4388 Lux / 2 m (spot lenses)
TITAN PLUS SOLO WHITE: 54 x 1W P4 LEDs (42 x White, 12 x Amber) 9900 Lux / 2 m (spot lenses)
Variable white colour temperature:
2.800°K÷6.500°K
No infrared emission; no ultraviolet emission
LEDs average lifespan: 100.000 hours
Optical units
3 lenses sets available (Spot, Medium flood, Wide flood)
Control
Via any DMX lighting console
Protection
IP20 or IP65 protection level against the penetration of solids and liquids
Construction
TITAN PLUS SOLO is made on aluminium
Power supply
Internal power supply
Connection
M12 connection system between head and power supply (TITAN PLUS SOLO IP20 / TITAN PLUS SOLO IP65)
Powerconn + XLR panel connectors (TITAN PLUS SOLO IP20)
3 x 1.5 sq mm Main AC cable 1 meter lenght + XLR Male / Female cable connectors 1 meter cable lenght (TITAN PLUS SOLO IP65)

ACCESSORIES
Lenses set Spot (TITAN PLUS SOLO FULL COLOUR) (Cod. 03.LK.019)
Lenses set Medium flood (TITAN PLUS SOLO FULL COLOUR) (Cod. 03.LK.020)
Lenses set Wide flood (TITAN PLUS SOLO FULL COLOUR) (Cod. 03.LK.021)
Lenses set Spot (TITAN PLUS SOLO RGB / WHITE) (Cod. 03.LK.022)
Lenses set Medium flood (TITAN PLUS SOLO RGB / WHITE) (Cod. 03.LK.023)
Lenses set Wide flood (TITAN PLUS SOLO RGB / WHITE) (Cod. 03.LK.024)
10XAWG26 multipolar black outdoor cable (Cod. 0509C061)
M12 female (8 pole) cable connector (Cod. 0520P050)
M12 male (8 pole) cable connector (Cod 0520P051)

MAIN ELECTRICAL CHARACTERISTICS:

Input Voltage Range : Vin 90 - 260 Vac
Frequency : 50 - 60 HZ
Power Consumption Range : 6 - 100 W
Power Factor (Pf) : 0.95 electronic PFC controller
Efficiency : 90% typical

Output:
Power Output Range : 4 channels output 1,5 - 25W per channel
Output Current : 350 mA @ 100% per channel (500mA @ 100% per channel in BOOST Mode)
Output Voltage : Vout 48V

Control Input:
Control Signal : DMX 512
Dimming System :Constant Current PWM
Address Range : DMX 512 channels addressable by display

IMPORTANT SAFETY INFORMATION

Fire prevention:

Never locate the fixture on any flammable surface.
Minimum distance from flammable materials: 10 cm
Replace any blown or damaged fuses only with those of identical value

Prevention from electric shock:

High voltage is present inside the unit.
Unplug the unit prior to performing any operation which involves touching the inside of the unit.
This equipment must be grounded, do not connect to non-grounded supplies.
The use of a thermal magnetic circuit breaker is recommended for each TITAN PLUS SOLO unit.
Use only AC supplies 90-260V, 50-60Hz
TITAN PLUS SOLO IP20 should never be located in position exposed to rain or in areas of extreme humidity.
A good air ventilation is essential for proper equipment work.

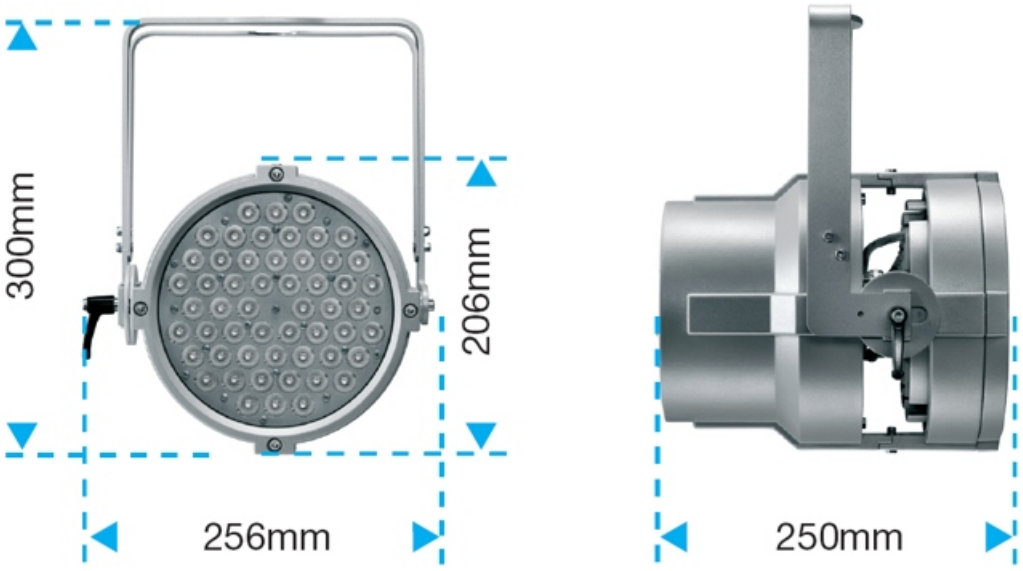
Safety:

The external surface of the unit may exeed 50°C; never handle the unit until at least 5 minutes have elapsed since the unit was turned off.
Never install the unit in an enclosed area lacking sufficient air flow.
The ambient temperature should not exeed 40°C and should not be lower than -10°C

UNIT DIMENSIONS:

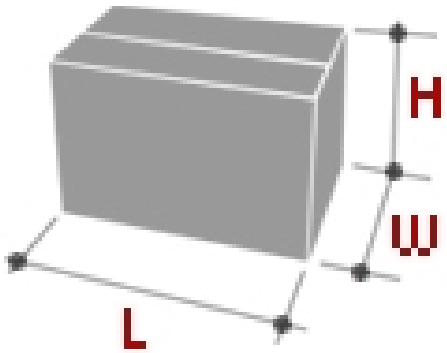
Unit Dimensions
(LxWxH)
250 x 256 x 206 mm

Weight
6,3 Kg



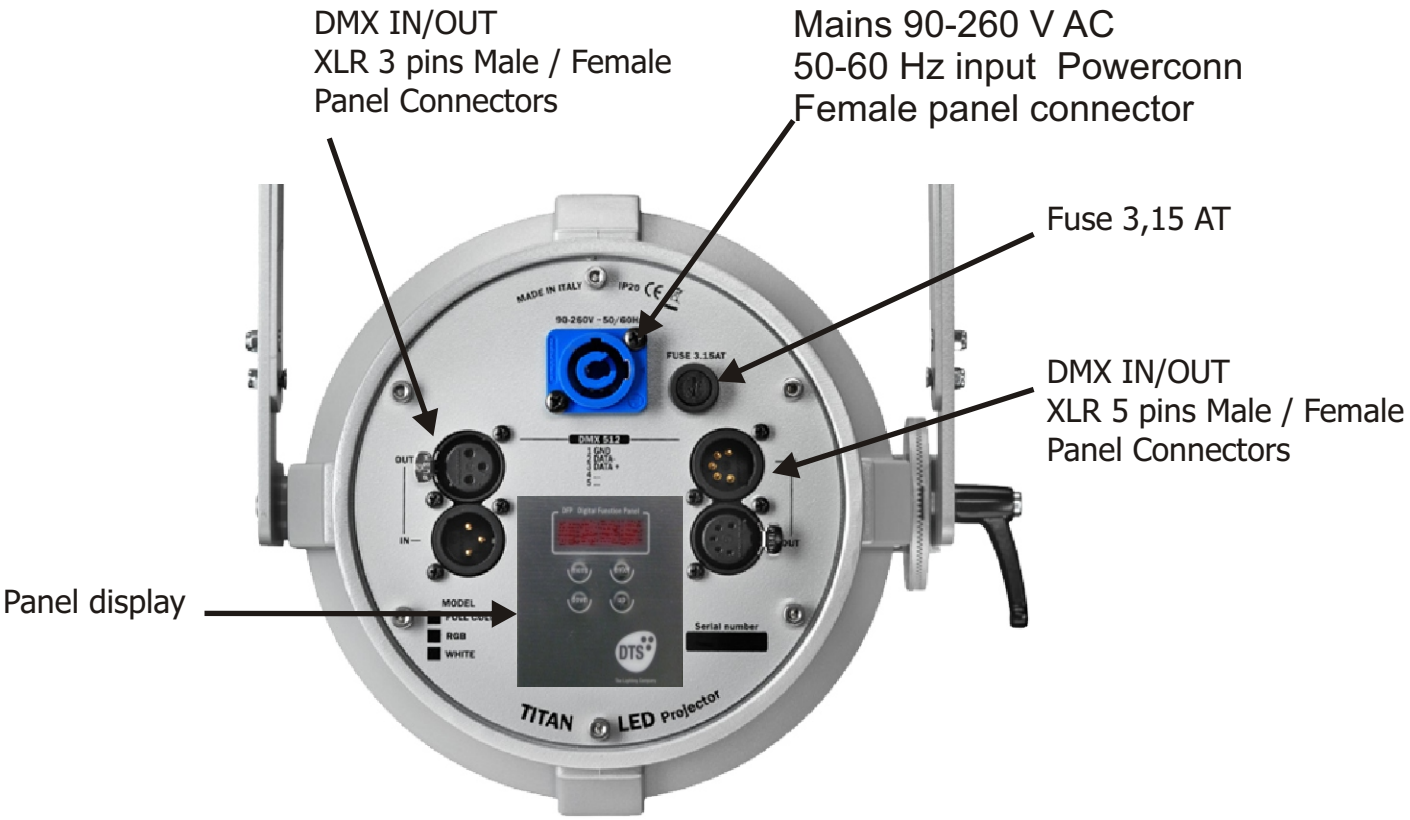
Packing Dimensions
(LxWxH)
300 x 320 x 220 mm

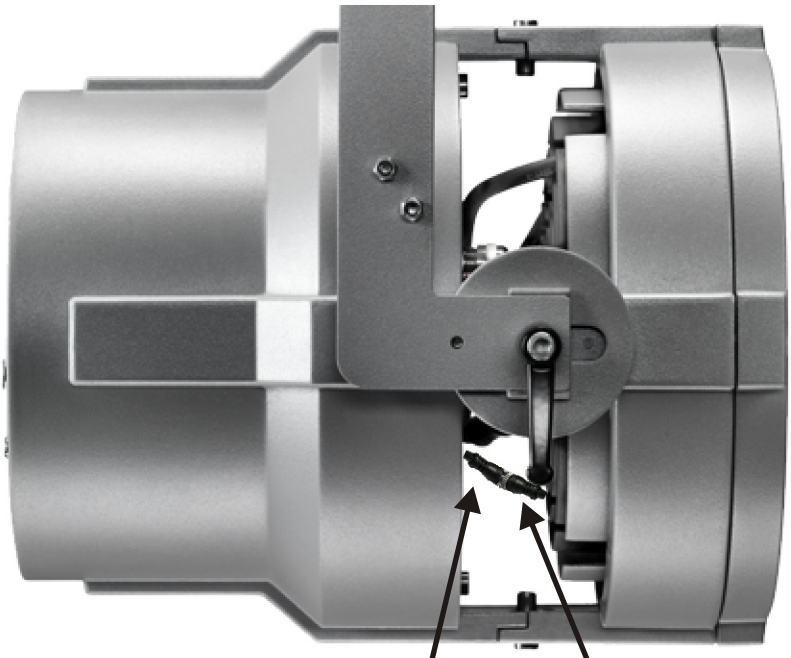
Weight
7,5 Kg



INPUT/OUTPUT CONNECTIONS

TITAN PLUS SOLO IP20

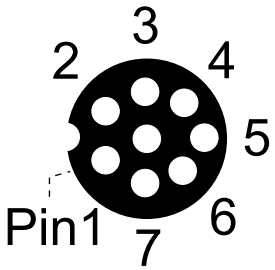




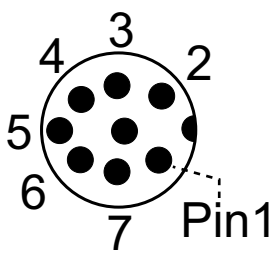
LEDS
CONNECTOR PINOUT

1-RED + (FC / RGB / WHITE)
2-RED - (FC / RGB / WHITE)
3-GREEN + (FC / RGB / WHITE)
4-GREEN - (FC / RGB / WHITE)
5-BLUE + (FC / RGB / WHITE)
6-BLUE - (FC / RGB / WHITE)
7-AMBER - (RGB / WHITE)
8-AMBER + (RGB / WHITE)

M12 LED output
Female cable connector



M12 LED input
Male cable connector



INPUT/OUTPUT CONNECTIONS

TITAN PLUS SOLO IP65

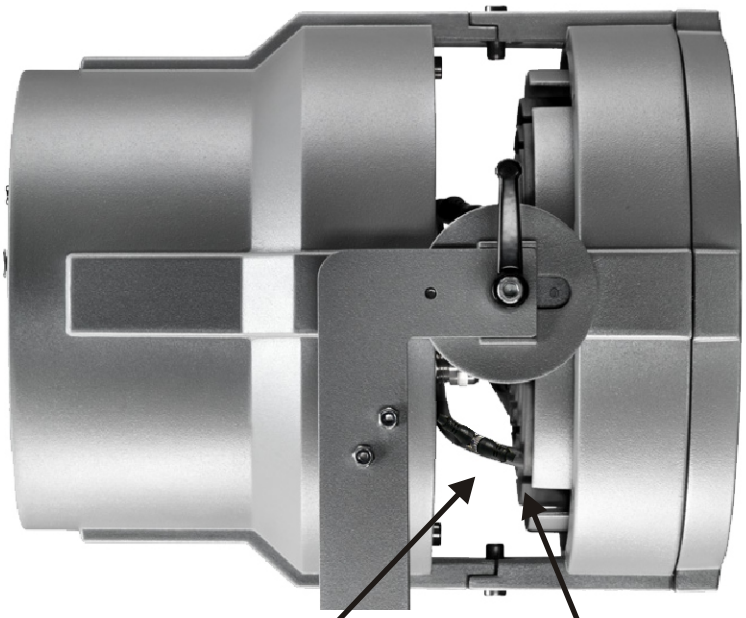
Mains 90-260 V AC
50-60 Hz input
3 x 1.5mm^2 Cable

Fuse 3,15 AT

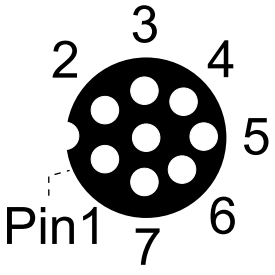
DMX IN/OUT
XRL 5 pin Male
Cable Connectors

DMX IN/OUT
XRL 5 pin Female
Cable Connectors

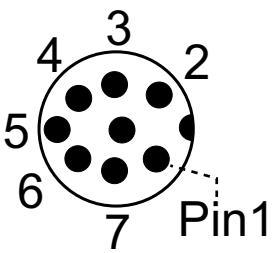
Display panel



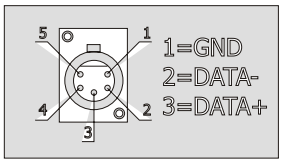
M12 LED output
Female cable connector



M12 LED input
Male cable connector



CONTROLLER
STANDARD
DMX 512



LEDS
CONNECTOR PINOUT

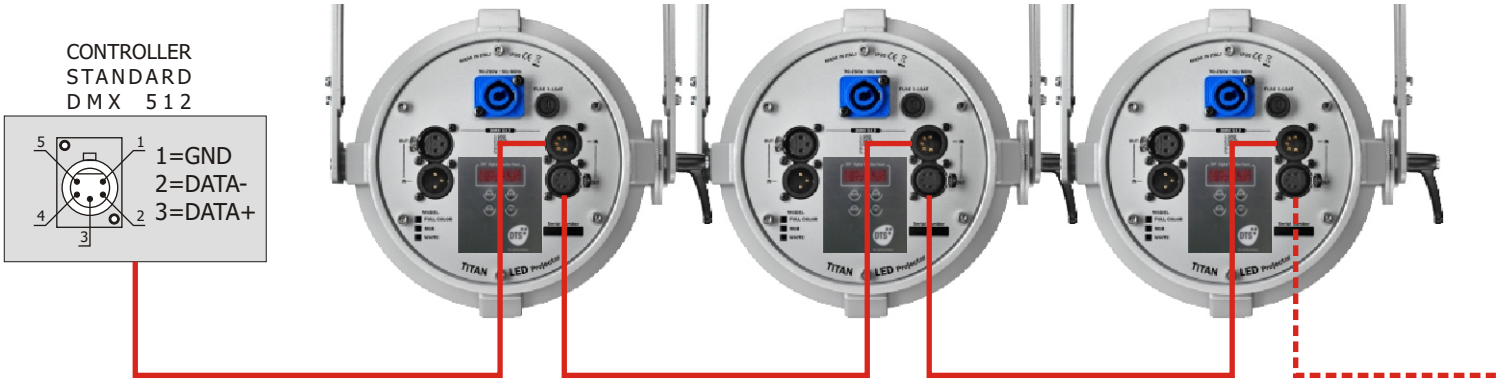
1-RED + (FC / RGB / WHITE)
2-RED - (FC / RGB / WHITE)
3-GREEN + (FC / RGB / WHITE)
4-GREEN - (FC / RGB / WHITE)
5-BLUE + (FC / RGB / WHITE)
6-BLUE - (FC / RGB / WHITE)
7-AMBER - (RGB / WHITE)
8-AMBER + (RGB / WHITE)

Please note that the XLR connectors installed on the TITAN PLUS IP65 have an IP20 protection rate.
Thus, for any application where an IP65 rate is needed, the XLR connectors must be protected within an IP65-rated container.

DMX SIGNAL CONNECTION:

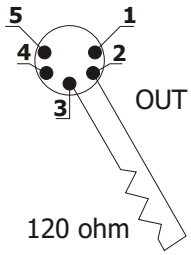
TITAN PLUS SOLO IP20

The unit operates using a digital DMX 512 signal. Connection between the controller and the unit or between units must be carried out using a two pair screened ø0.5 mm.
Ensure that the conductors do not touch each other. Do not connect the cable ground to the DMX connector chassis. The plug housing must be isolated. Connect the mixer signal to the DMX IN projector plug and connect it to the next projector by connecting the DMX OUT plug on the first unit to the DMX IN plug of the second one.
In this way, all the projectors are cascade connected.

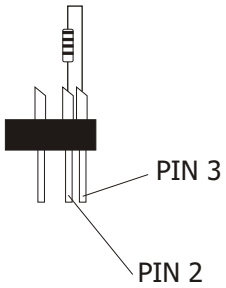


P.S:
If the display showing the DMX address flashes, then one of the following errors has occurred:
- DMX signal not present
- DMX reception problem

For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.
The DMX terminator is a male XLR 3-5 pins connector with a 120 ohm resistor Between pin 2 and 3.
The DMX terminator must be plugged into the last unit (DMX out panel connector) of the DMX line.



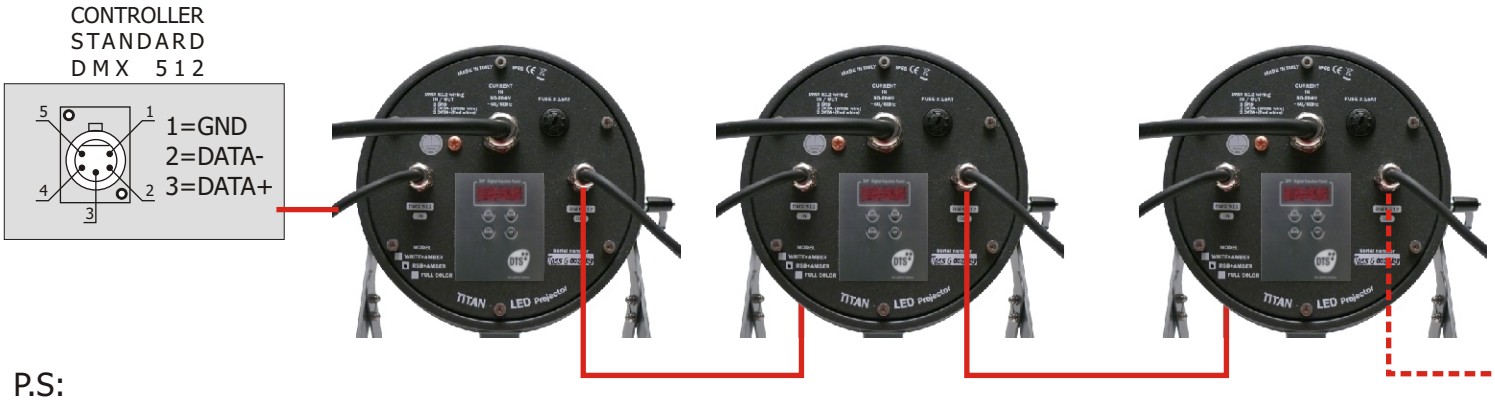
PLACE A 120 OHM RESISTOR BETWEEN PIN 2 AND 3 OF A MALE XRL CONNECTOR AND PLUG IT INTO THE DMX OUT PANEL CONNECTOR OF THE LAST UNIT CONNECTED TO THE DMX LINE



DMX SIGNAL CONNECTION:

TITAN PLUS SOLO IP65

The unit operates using a digital DMX 512 signal. Connection between the controller and the unit or between units must be carried out using a two pair screened ø0.5 mm.
Ensure that the conductors do not touch each other. Do not connect the cable ground to the DMX connector chassis. The plug housing must be isolated. Connect the mixer signal to the DMX IN projector plug and connect it to the next projector by connecting the DMX OUT plug on the first unit to the DMX IN plug of the second one.
In this way, all the projectors are cascade connected.



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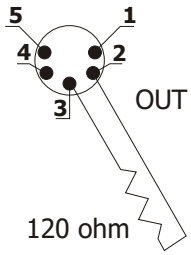
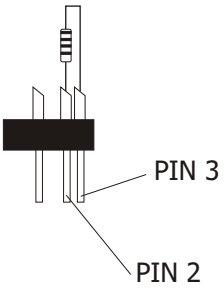


PLACE A 120 OHM RESISTOR BETWEEN PIN 2 AND 3 OF A MALE XRL CONNECTOR AND PLUG IT INTO THE DMX OUT PANEL CONNECTOR OF THE LAST UNIT CONNECTED TO THE DMX LINE



Please note that the XLR connectors installed on the TITAN PLUS IP65 have an IP20 protection rate.
Thus, for any application where an IP65 rate is needed, the XLR connectors must be protected within an IP65-rated container.

DMX ADDRESS

TITAN PLUS SOLO FULL COLOR can be used in seven different modes: 9 DMX channels mode (default), 5 DMX channels mode (Shutter + Dimmer + RGB), WALL mode (6 DMX channels; for use with DTS Wall mounted DMX controller 0514L007), M3CH mode (4 DMX channels; Dimmer + RGB), RGB mode (3 channels), 1 DMX channel mode or CUSTOM DMX mode (not yet implemented).
TITAN PLUS SOLO RGB and TITAN PLUS SOLO WHITE can be used in seven different modes: 10 DMX channels mode (default), 6 DMX channels mode (Shutter + Dimmer + RGBA), WALL mode (6 DMX channels; for use with DTS Wall mounted DMX controller 0514L007), M4CH mode (5 DMX channels; Dimmer + RGBA), RGBA mode (4 channels), 1 DMX channel mode or CUSTOM DMX mode (not yet implemented).

If you want to use the TITAN PLUS SOLO FULL COLOR in "WALL" mode, select the "WALL" mode from the MODE menu and set the following addresses on the mixer: **(To be used only with DTS Wall mounted DMX controller 0514L007)**

Projector 1	A001
Projector 2	A009
Projector 3	A017
…..	A….
projector 6	A041

If you want to select the next projector, just add "8"
DTS Wall mounted DMX controller 0514L007 assign 8 DMX channels per unit also if some channels are not used

If you want to use the TITAN PLUS SOLO FULL COLOR in 9 channels mode, select the 9 CH mode from the MODE menu and set the following addresses on the mixer:

Projector 1	A001
Projector 2	A010
Projector 3	A019
…..	A….
projector 6	A046

If you want to select the next projector, just add "9"

If you want to use the TITAN PLUS SOLO RGB and TITAN PLUS SOLO WHITE in 10 channels mode, select the 10 CH mode from the MODE menu and set the following addresses on the mixer:

Projector 1	A001
Projector 2	A011
Projector 3	A021
…..	A….
projector 6	A051

If you want to select the next projector, just add "10"

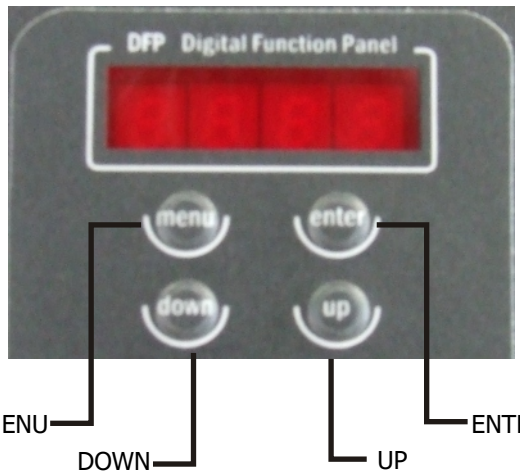
Selelcting the DMX address

1) Press the UP-DOWN key until you reach the required DMX address. The numbers on the display will start to flash (but the new DMX address hasn't yet been set).
2) Press ENTER to confirm your selection. The numbers on the display will stop flashing and the projector is now controlled by the new DMX address.

TIPS: if you keep pushed the UP or DOWN keys, the channels are calculated more quickly and you get a faster selection.
2) Press ENTER to confirm your selection. The numbers on the display will stop flashing and the projector is now controlled by the new DMX address.

DISPLAY FUNCTIONS

TITAN PLUS SOLO FULL COLOUR



DISPLAY FUNCTIONS

The TITAN PLUS SOLO FULL COLOUR display panel shows all the available functions . Using these functions, it is possible to change some of the parameters and add some functions. Changing the D.T.S. setting can vary the functions of the unit so that it does not respond to the DMX 512 signal used to control it. Carefully follow the instructions below before carrying out any variations or selections.

NOTE: the symbol ☞ shows which key has to be pushed to obtain the desired function.

Software version 2.11

A001 — MENU ☞ Up-Down ☞ dISP — ENTER ☞ Up-Down ☞ POS1 — ENTER ☞ Up-Down ☞

- AA — Floor position — ENTER ☞
- bb — Suspension position — ENTER ☞

REVERSE DISPLAY
Reverses display's reading depending on the mounting position
(On the ground or suspended).

Up-Down ☞ StbY — ENTER ☞ Up-Down ☞

- oFF — Display OFF — ENTER ☞
- on — Display always ON — ENTER ☞

DISPLAY STAND BY
To turn off the display (after 5 seconds)
Or leave it always on.

MENU ☞ Up-Down ☞ mOdE — ENTER ☞ Up-Down ☞

- 9CH — 9 CHANNELS — ENTER ☞ — Default DMX Mode = 9 CH
- Up-Down ☞ uALL — 6 CHANNELS — ENTER ☞
- Up-Down ☞ 1CH — 1 CHANNEL — ENTER ☞
- Up-Down ☞ rGb — RGB (3 CHANNELS) — ENTER ☞
- Up-Down ☞ 5CH — 5 CHANNELS — ENTER ☞ — Shutter + Dimmer + RGB
- Up-Down ☞ M3cH — M3CH (4 CHANNELS) — ENTER ☞ — Dimmer + RGB
- Up-Down ☞ CUSt — ENTER ☞ Up-Down ☞
  - SEL — ENTER ☞ — Custom mode enabled
  - ShoU — ENTER ☞ — Show Custom settings
  - SEt — ENTER ☞ — Parameters Setting on Custom Mode

DMX MODE
To select DMX mode : 9 DMX channels mode (default), 5 DMX channels mode (Shutter + Dimmer + RGB), WALL mode (6 DMX channels; for use with DTS Wall mounted DMX controller 0514L007), M3CH mode (4 DMX channels; Dimmer + RGB), RGB mode (3 channels), 1 DMX channel mode.

AUX mode let you activate an external ON -OFF control on IR connector.
(not implemented on TITAN PLUS)

CUSTOM DMX mode let you set the parameters for Shutter, Dimmer, Red, Green, Blue, Ctc, Macro and Function to the desired DMX channels.
(not yet implemented)

MACRO
MACRO Function, enable channel mapping macro rainbow effects
STD (default)

- Up-Down ☞ AUX — AUX MODE — ENTER ☞ — External ON - OFF control on IR connector (not implemented on TITAN PLUS)
- Up-Down ☞ MACr — ENTER ☞ Up-Down ☞
  - Std — ENTER ☞ — Standard mode enabled: (Default).
  - EXt — ENTER ☞ — Extended mode enabled: Rainbow effects on MACRO channel.

MENU Up-Down → LED → ENTER Up-Down → rED → ENTER Up-Down → MIn → Default = 0 → ENTER

LED
RGB Min/Max, Smooth, Compression, Sync and Boost level values settings

MAH → Default = 255 → ENTER

Up-Down → GrEE → ENTER Up-Down → MIn → Default = 0 → ENTER

RGB MINIMUM VALUES
This menu allow to select the minimum levels for Red,Green and Blue

MAH → Default = 255 → ENTER

RGB MAXIMUM VALUES
This menu allow to select the maximum levels for Red,Green and blue

Up-Down → bLUE → ENTER Up-Down → MIn → Default = 0 → ENTER

These settings have priority on Master Dimmer channel

MAH → Default = 255 → ENTER

Up-Down → SMtH → ENTER Up-Down → 4 → Range = Off-20 Default = 4 → ENTER

SMOOTH VALUE
This menu allow to select the value of the delay (in millisecons) for RGB and Dimmer channels reaction to DMX or Program variation.
Off=25 ms delay (Fast response)
20=250 ms delay (Slow response)

Off = 25 ms
Istant responce to DMX variation

20 = 250 ms
Smooth response to DMX variation

Up-Down → COMP → ENTER Up-Down → LInE → Linear = Linear courrent output → ENTER

COMPRESSION
This menu allow to select between Linear courrent output or Quadratic courrent output for LEDs
Default = Linear

QUAd → Quadratic = Linear light output → ENTER

Up-Down → SYnc → ENTER Up-Down → 610 → Range = 610 Hz -10 KHz Default = 610 Hz → ENTER

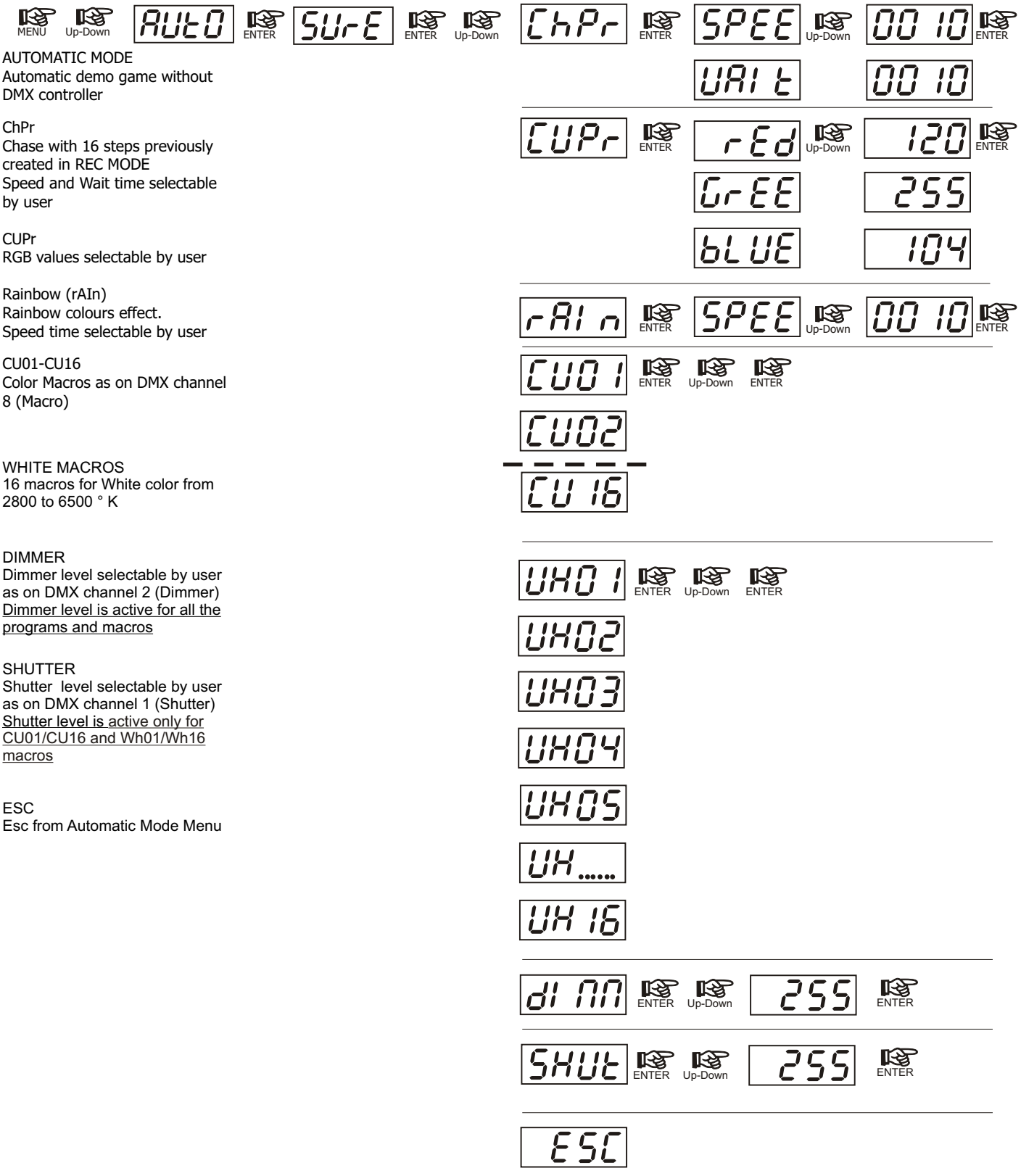
SYNC
This menu allow to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of your camera recordings

bSt → ENTER Up-Down → On → Boost mode activated → ENTER

Up-Down → OFF → Boost mode deactivated → ENTER

BOOST DRIVING
This menu allow to increase the LED's current from 350mA to 500 mA

Whit BOOST active,the LED's current is set to 500mA (30%more gain).
Default = Disable



AUTOMATIC MODE
Automatic demo game without DMX controller

ChPr
Chase with 16 steps previously created in REC MODE
Speed and Wait time selectable by user

CUPr
RGB values selectable by user

Rainbow (rAIn)
Rainbow colours effect.
Speed time selectable by user

CU01-CU16
Color Macros as on DMX channel 8 (Macro)

WHITE MACROS
16 macros for White color from 2800 to 6500 ° K

DIMMER
Dimmer level selectable by user as on DMX channel 2 (Dimmer)
Dimmer level is active for all the programs and macros

SHUTTER
Shutter level selectable by user as on DMX channel 1 (Shutter)
Shutter level is active only for CU01/CU16 and Wh01/Wh16 macros

ESC
Esc from Automatic Mode Menu

REC MODE
In DMX Recorder Mode,it is possible to create and store the scenes of the ChPr by using an external DMX controller.
The unit must be set to 9 channels MODE

DMX Recorder Mode
For the programming of ChPr by using a DMX controller, besides the 9 channels necessary to control the unit a further 3 DMX channels are needed.
So that in RECORDER mode (via DMX) the unit will need 12 channels to be correctly programmed.
The three new DMX channels are:

DMX channel 10 = SCENES channel
From 0-10 = no function (r001)
From 11-255 are displayed the programmable scenes (max 16 scenes from M001 to M0016)

DMX channel 11 = EDIT channel:
-From 0-19 = no function
-From 20-234 the unit runs the configuration given by the received input DMX values.
With the channel SCENES it is possible to pass from one step to the next while with REC it is possible to record the selected scene.
-From 235-255 the unit runs the configuration given by the received input DMX values closing the sequence as last scene.
With the channel REC it is possible to record the selected scene as last scene.

DMX channel 12 = RECORDING channel
Records the set scene with a variation between 0 to 255 (the display flashes indicating that the scene has been recorded).It is advised that you keep the REC channel set to 0 and to run through the 255 only once you have decided to save the scene. If ChPr is not closed, by indicating the last scene (Edit channel between 235-255), in playback mode all 16 scenes will be played through even if not programmed

MENU Up-Down SLAU ENTER SURE ENTER Up-Down SLU ENTER
ESC

SLAVE MODE
Slave mode for ChPr program.
All slave units will be synchronised with master unit, running their own Chpr program.

MENU Up-Down Ir ENTER Up-Down On ENTER
OFF

INFRARED MODE
Infrared remote control.
By activating Ir MODE, it will be possible to navigate trought the unit functions by using the D.T.S. infrared remote control.
D.T.S. Code :0514L008

NOTE:
External infrared remote sensor needed.
D.T.S. Code :03.LA.016

NOT IMPLEMENTED ON TITAN PLUS

MENU Up-Down FAn ENTER Up-Down 12U ENTER
OFF

FAN SPEED CONTROL
Internal Fan Speed control selectable by user.
Range: OFF - 24 volt
Default : 12 volt

Fan Speed Control
Range: OFF - 24 volt
Default = 12 volt

MENU Up-Down ENEr ENTER Up-Down SEL ENTER Up-Down On ENTER
OFF

EMERGENCY
Emergency operating mode.
By setting Emergency mode, it will be possible to select one of the 16 preprogrammed WHITE cues that will then ran if DMX signal is missing or not available.
Usefull for Emergency EXIT ilumination on public areas.

Default = OFF

UhIt ENTER

Default = White 1

dIMM ENTER

Default = 255

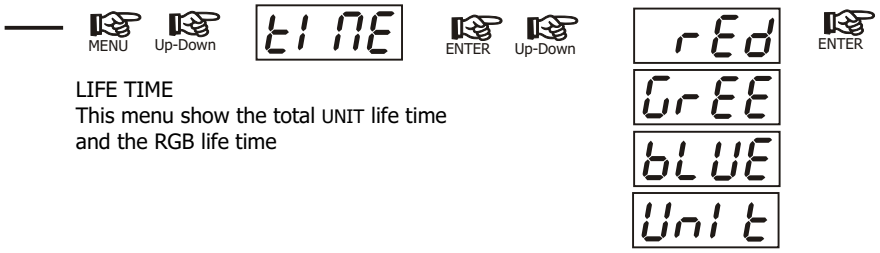
MENU Up-Down dFSE ENTER SURE ENTER

DEFAULT
To restore default settings

MENU Up-Down tEMP ENTER 025.0 ENTER

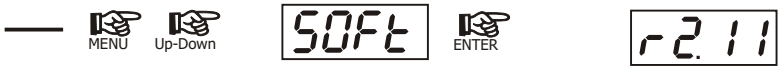
TEMPERATURE
Internal Unit temperature visualisation

Internal Unit temperature.
(° Celsius)



LIFE TIME
This menu show the total UNIT life time
and the RGB life time

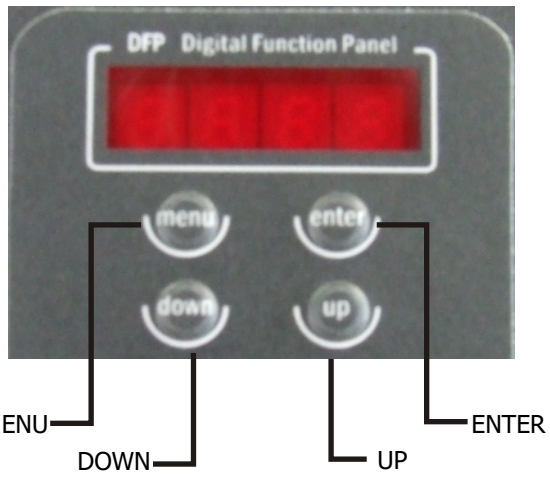
TEST MODE
RGB colours test with rainbow



SOFTWARE
Software version

DISPLAY FUNCTIONS

TITAN PLUS SOLO RGBA
TITAN PLUS SOLO WHITE



DISPLAY FUNCTIONS

The TITAN PLUS SOLO RGBA/WHITE display panel shows all the available functions . Using these functions, it is possible to change some of the parameters and add some functions. Changing the D.T.S. setting can vary the functions of the unit so that it does not respond to the DMX 512 signal used to control it. Carefully follow the instructions below before carrying out any variations or selections.

NOTE: the symbol ☞ shows which key has to be pushed to obtain the desired function.

Software version 2.11

A001 — MENU ☞ Up-Down ☞ dISP — ENTER ☞ Up-Down ☞ POS1 — ENTER ☞ Up-Down ☞

- AA — Floor position — ENTER ☞
- UU — Suspension position — ENTER ☞

REVERSE DISPLAY
Reverses display's reading depending on the mounting position
(On the ground or suspended).

Up-Down ☞ StbY — ENTER ☞ Up-Down ☞

- oFF — Display OFF — ENTER ☞
- on — Display always ON — ENTER ☞

DISPLAY STAND BY
To turn off the display (after 5 seconds)
Or leave it always on.

MENU ☞ Up-Down ☞ nOdE — ENTER ☞ Up-Down ☞

- 10CH — 10 CHANNELS — ENTER ☞ — Default DMX Mode = 10 CH
- UALL — 6 CHANNELS — ENTER ☞
- 1CH — 1 CHANNEL — ENTER ☞
- rGbA — RGBA (4 CHANNELS) — ENTER ☞
- 6CH — 6 CHANNELS — ENTER ☞
- M4cH — M4CH (5 CHANNELS) — ENTER ☞ — Dimmer + RGBA
- CUSt — ENTER ☞ Up-Down ☞
  - SEL — Custom mode enabled — ENTER ☞
  - ShoU — Show Custom settings — ENTER ☞
  - SEt — Parameters Setting on Custom Mode — ENTER ☞
- AUX — AUX MODE — ENTER ☞ — External ON - OFF control on IR connector (not implemented on TITAN SOLO)
- MACr — ENTER ☞ Up-Down ☞
  - Std — Standard mode enabled: (Default). — ENTER ☞
  - EXt — Extended mode enabled: Rainbow effects on MACRO channel. — ENTER ☞

DMX MODE
To select DMX mode : 10 DMX channels mode (default), 6 DMX channels mode (Shutter + Dimmer + RGBA), WALL mode (6 DMX channels; for use with DTS Wall mounted DMX controller 0514L007), M4CH mode (5 DMX channels; Dimmer + RGBA), RGBA mode (4 channels), 1 DMX channel mode.

AUX mode let you activate an external ON -OFF control on IR connector.
(not implemented on TITAN SOLO)

CUSTOM DMX mode let you set the parameters for Shutter, Dimmer, Red, Green, Blue, Amber, Ctc, Macro and Function to the desired DMX channels.
(not yet implemented)

MACRO
MACRO Function, enable channel mapping macro rainbow effects
STD (default)

MENU Up-Down → LED → ENTER Up-Down → rED → ENTER Up-Down → MIn → Default = 0 → ENTER

LED
RGBA Min/Max, Smooth and Compression level values settings

MAX → Default = 255 → ENTER

Up-Down → GrEE → ENTER Up-Down → MIn → Default = 0 → ENTER

RGBA MINIMUM VALUES
This menu allow to select the minimum levels for Red, Green, Blue and Amber

MAX → Default = 255 → ENTER

Up-Down → bLUE → ENTER Up-Down → MIn → Default = 0 → ENTER

RGBA MAXIMUM VALUES
This menu allow to select the maximum levels for Red, Green, Blue and Amber

MAX → Default = 255 → ENTER

→ AMbr → ENTER Up-Down → MIn → Default = 0 → ENTER

These settings have priority on Master Dimmer

MAX → Default = 255 → ENTER

Up-Down → SMTH → ENTER Up-Down → 4 → Range = Off - 20 Default = 4 → ENTER

SMOOTH VALUE
This menu allow to select the value of the delay (in millisecons) for RGBA and Dimmer channels reaction to DMX or Program variation.
Off = 25 ms delay (Fast response)
20 = 250 ms delay (Slow response)

Off = 25 ms
Istant responce to DMX variation

20 = 250 ms
Smooth response to DMX variation

Up-Down → COMP → ENTER Up-Down → LInE → Linear = Linear courrent output → ENTER

QUAd → Quadratic = Linear light output → ENTER

COMPRESSION
This menu allow to select between Linear current output or Quadratic current output for LEDs
Default = Linear

Up-Down → SYnc → ENTER Up-Down → 610 → Range = 610 Hz -10 KHz Default = 610 Hz → ENTER

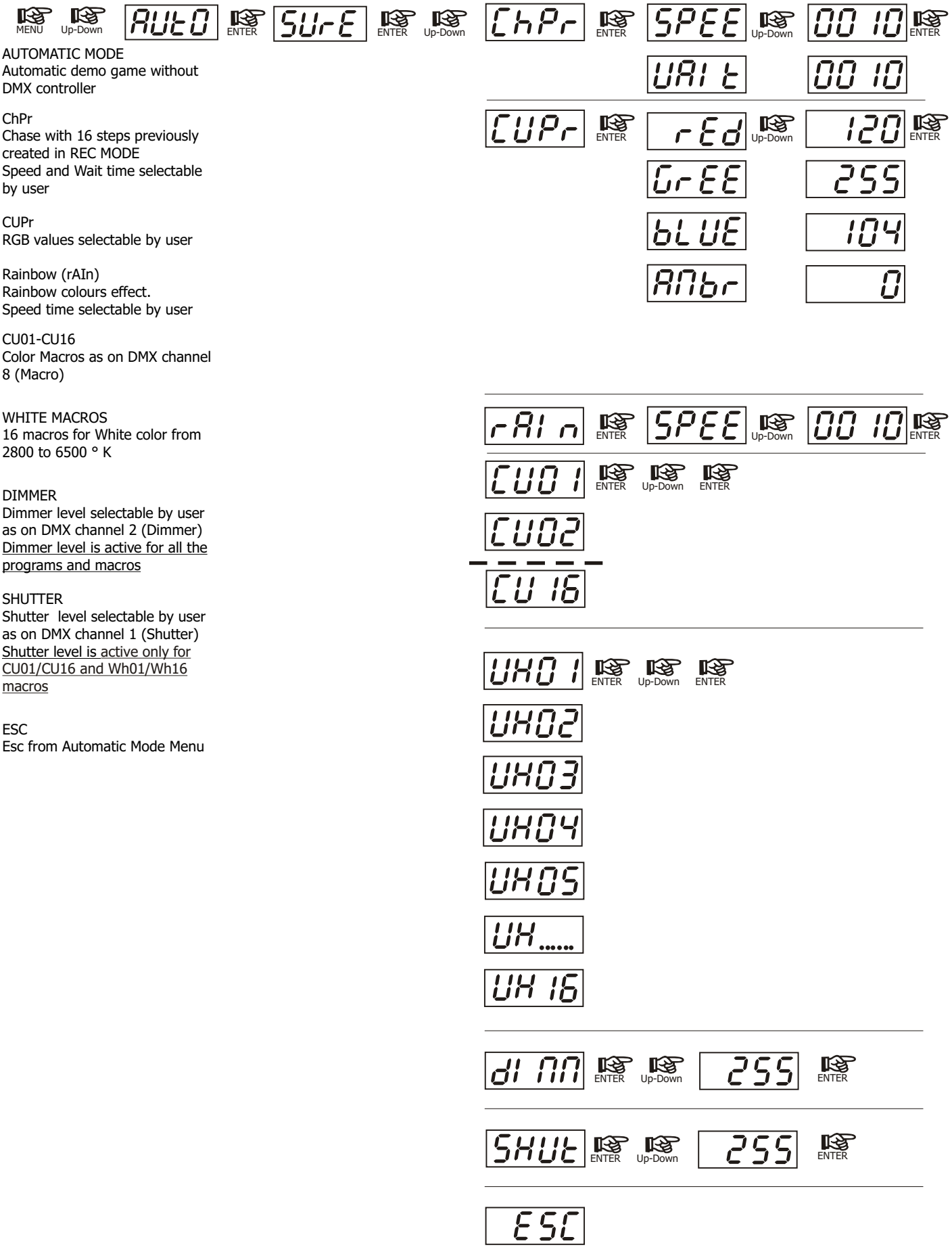
SYNC
This menu allow to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of your camera recordings

→ bSt → ENTER Up-Down → On → Boost mode activated → ENTER

Up-Down → OFF → Boost mode deactivated → ENTER

BOOST DRIVING
This menu allow to increase the LED's current from 350mA to 500 mA

Whit BOOST active,the LED's current is set to 500mA (30%more gain).
Default = Disable



AUTOMATIC MODE
Automatic demo game without DMX controller

ChPr
Chase with 16 steps previously created in REC MODE
Speed and Wait time selectable by user

CUPr
RGB values selectable by user

Rainbow (rAIn)
Rainbow colours effect.
Speed time selectable by user

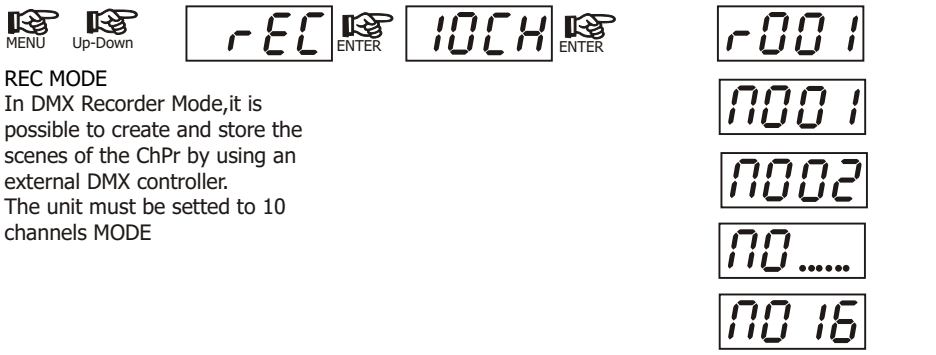
CU01-CU16
Color Macros as on DMX channel 8 (Macro)

WHITE MACROS
16 macros for White color from 2800 to 6500 ° K

DIMMER
Dimmer level selectable by user as on DMX channel 2 (Dimmer)
Dimmer level is active for all the programs and macros

SHUTTER
Shutter level selectable by user as on DMX channel 1 (Shutter)
Shutter level is active only for CU01/CU16 and Wh01/Wh16 macros

ESC
Esc from Automatic Mode Menu



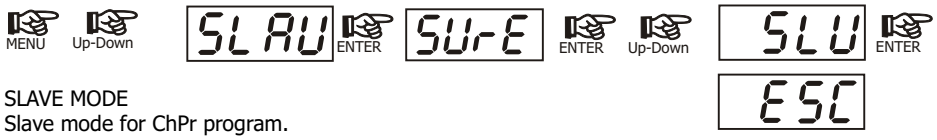
REC MODE
In DMX Recorder Mode,it is possible to create and store the scenes of the ChPr by using an external DMX controller.
The unit must be setted to 10 channels MODE

DMX Recorder Mode
For the programming of ChPr by using a DMX controller, besides the 10 channels necessary to control the unit a further 3 DMX channels are needed.
So that in RECORDER mode (via DMX) the unit will need 13 channels to be correctly programmed.
The three new DMX channels are:

DMX channel 11 = SCENES channel
From 0-10 = no function (r001)
From 11-255 are displayed the programmable scenes (max 16 scenes from M001 to M0016)

DMX channel 12 = EDIT channel:
-From 0-19 = no function
-From 20-234 the unit runs the configuration given by the received input DMX values.
With the channel SCENES it is possible to pass from one step to the next while with REC it is possible to record the selected scene.
-From 235-255 the unit runs the configuration given by the received input DMX values closing the sequence as last scene.
With the channel REC it is possible to record the selected scene as last scene.

DMX channel 13 = RECORDING channel
Records the set scene with a variation between 0 to 255 (the display flashes indicating that the scene has been recorded).It is advised that you keep the REC channel set to 0 and to run through the 255 only once you have decided to save the scene. If ChPr is not closed, by indicating the last scene (Edit channel between 235-255), in playback mode all 16 scenes will be played through even if not programmed



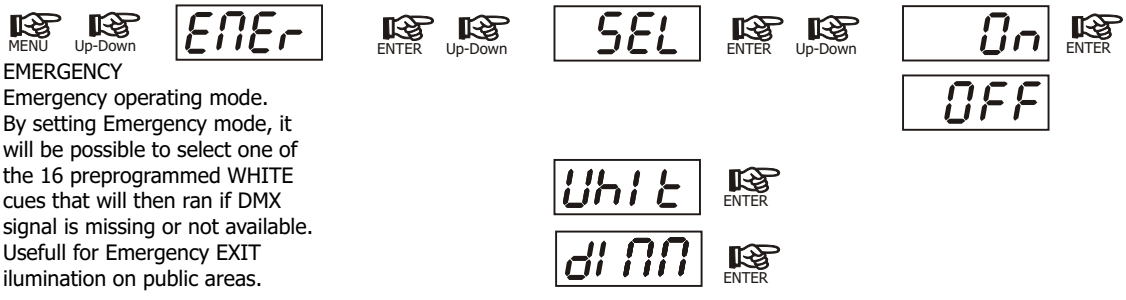
SLAVE MODE
Slave mode for ChPr program.
All slave units will be synchronised with master unit, running their own Chpr program.

INFRARED MODE
Infrared remote control.
By activating Ir MODE, it will be possible to navigate trought the unit functions by using the D.T.S. infrared remote control.
D.T.S. Code :0514L008

NOTE:
External infrared remote sensor needed.
D.T.S. Code :03.LA.016
Not Implemented on TITAN PLUS

FAN SPEED CONTROL
Internal Fan Speed control selectable by user.
Range: OFF - 24 volt
Default : 12 volt

Fan Speed Control
Range: OFF - 24 volt
Default = 12 volt

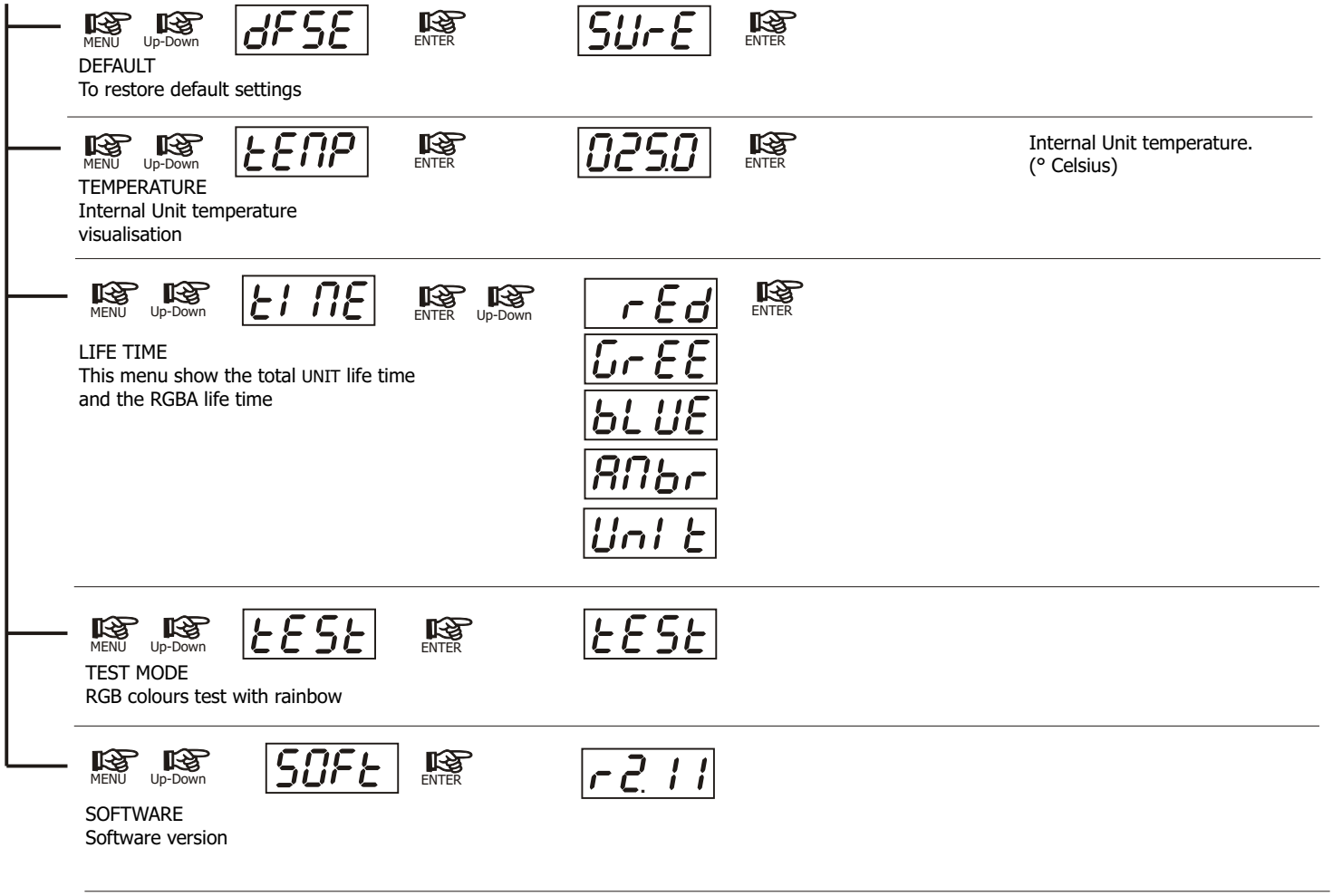


EMERGENCY
Emergency operating mode.
By setting Emergency mode, it will be possible to select one of the 16 preprogrammed WHITE cues that will then ran if DMX signal is missing or not available.
Usefull for Emergency EXIT ilumination on public areas.

Default = OFF

Default = White 1

Default = 255



HIDDEN MENU

For technical personnel only

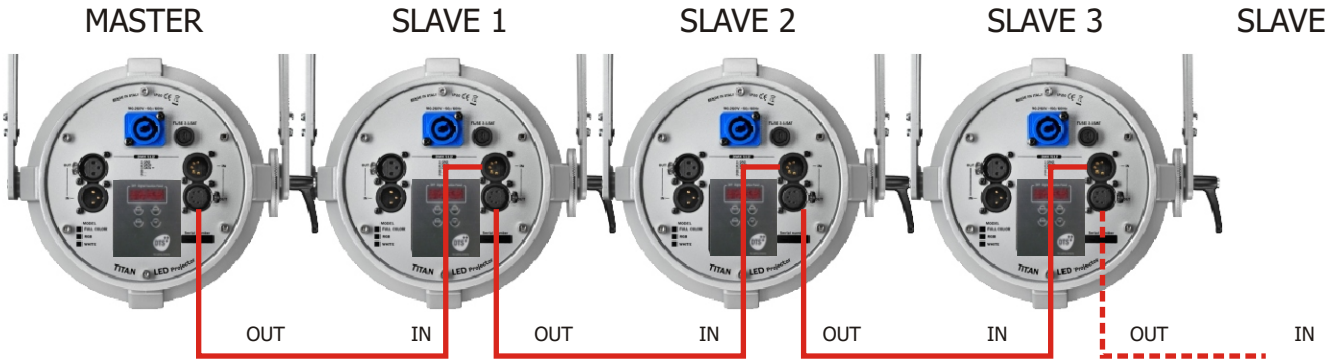
To operate this menu:
-Connect the unit to the main
-While reset is running, press the MENU and ENTER keys at the same time.

ChAn CHANNELS
This menu allow to set 3 channels or 4 channels LEDs output mode
3 LEDs channels output mode = TITAN PLUS SOLO FULL COLOUR
4 LEDs channels output mode = TITAN PLUS SOLO RGB / TITAN PLUS SOLO WHITE

ESC EXIT
Exit from hidden menu.

AUTOMATIC OPERATION (AUTO):

TITAN PLUS SOLO can work in automatic mode without a DMX controller. First of all connect the projectors with a DMX cable (picture below). A maximum quantity of 32 slave units can be connected to the same Master unit.



To activate Auto mode on the first unit, use the menu to run through the different modes until AUTO appears on the display, and press enter.
Now it is possible to choose between the different pre-programmed games (CUPr-RAIn-CU01/CU16-Wh01/Wh16) or ChPr which is user programmable through REC mode. To confirm game activation press ENTER on the selected GAME.

CUPr-RAIn-CU01/CU16-Wh01/Wh16

The first unit that will work as a Master should be placed in Automatic mode (AUTO), the other units have to be placed in 9 channels DMX mode (MODE 9CH) for TITAN PLUS SOLO FULL COLOUR or in 10 channels DMX mode (MODE 10 CH) for TITAN PLUS SOLO RGB / WHITE and the DMX address should be set at A001. For RaIn (rainbow) game it is possible to select the speed for the colour changhing (SPEE).
DIMMER function (in AUTOMATIC MODE) is active for all the programs.
SHUTTER function (in AUTOMATIC MODE) is active only for CU01/CU16 and Wh01/Wh16 macros.

ChPr MASTER/SLAVE

The first unit that will function as a Master must be set to Automatic mode (AUTO), the other units must be set to Slave mode (SLAV), selectable through the menu. In this way all the Slave units will be synchronised with the master and running their own ChPr game.
On the master unit it is possible to vary the Speed time (SPEE) for the colour changhing and the Wait time (UAIt) between the steps.
Speed time and Wait time on the Master, have priority on the slave units.
NB: It is possible to run GA.Pr on the Slave units even though these do not have GA.Pr programmed. You can do this by setting the units to 9 ch DMX MODE for TITAN PLUS SOLO FULL COLOUR or 10 channels DMX mode for TITAN PLUS SOLO RGB / WHITE and selecting DMX address A001.

Rec mode

It is possible to program your own game on the TITAN PLUS SOLO that will then run it in AUTO mode (ChPr). Each unit can have its own programmed game.
In REC mode the unit must be set to 9 channels mode for TITAN PLUS SOLO FULL COLOUR and 10 channels mode for TITAN PLUS SOLO RGB / TITAN PLUS SOLO WHITE.
To program the ChPr by using a DMX controller, you need 3 more channels in addition to the 9/10 channels necessary to control the unit.
So that in RECORDER mode (via DMX) the unit will need 12/13 DMX channels to be correctly programmed.
The three new DMX channels are:

TITAN PLUS SOLO FULL COLOUR

DMX channel 10 = SCENES channel
From 0-10 = no function (r001)
From 11-255 are displayed the programmable scenes (max 16 scenes from M001 to M0016)

DMX channel 11 = EDIT channel:
-From 0-19 = no function
-From 20-234 the unit runs the configuration given by the received input DMX values.
With the channel SCENES it is possible to pass from one step to the next while with REC it is possible to record the selected scene.
-From 235-255 the unit runs the configuration given by the received input DMX values closing the sequence as last scene.
With the channel REC it is possible to record the selected scene as last scene.

DMX channel 12 = RECORDING channel
Records the set scene with a variation between 0 to 255 (the display flashes indicating that the scene has been recorded).It is advised that you keep the REC channel set to 0 and to run through the 255 only once you have decided to save the scene. If ChPr is not closed, by indicating the last scene (Edit channel between 235-255), in playback mode all 16 scenes will be played through even if not programmed

TITAN PLUS SOLO RGB / TITAN PLUS SOLO WHITE

DMX channel 11 = SCENES channel
From 0-10 = no function (r001)
From 11-255 are displayed the programmable scenes (max 16 scenes from M001 to M0016)

DMX channel 12 = EDIT channel:
-From 0-19 = no function
-From 20-234 the unit runs the configuration given by the received input DMX values.
With the channel SCENES it is possible to pass from one step to the next while with REC it is possible to record the selected scene.
-From 235-255 the unit runs the configuration given by the received input DMX values closing the sequence as last scene.
With the channel REC it is possible to record the selected scene as last scene.

DMX channel 13 = RECORDING channel
Records the set scene with a variation between 0 to 255 (the display flashes indicating that the scene has been recorded).It is advised that you keep the REC channel set to 0 and to run through the 255 only once you have decided to save the scene. If ChPr is not closed, by indicating the last scene (Edit channel between 235-255), in playback mode all 16 scenes will be played through even if not programmed

DMX PROTOCOL

TITAN PLUS SOLO FULL COLOUR

9 CHANNELS MODE (Default)

1 SHUTTER
2 DIMMER
3 RED
4 GREEN
5 BLUE
6 WHITE (Pre-programmed whites at different color temperatures)
7 CTC
8 COLOURS MACRO
9 FUNCTIONS

DMX CHANNEL	1	Parameter: **SHUTTER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9	**5**				**Black-out**
10-19	**14**				**Open**
20-29	**24**				**Black-out**
30-119					**Strobe at variable speed from slow to fast (3700ms-20ms)**
120-149					**Pulse open at variable speed from slow to fast (42,6s-100ms)**
150-179					**Pulse close at variable speed from slow to fast (42,6s-100ms)**
180-204	**192**				**Random Strobe (Master and RGB active)**
205-229	**218**				**Random Strobe (Full)**
230-234					**Red, Yellow, Cyan and Blue colour effects at variable speed**
235-255	**245**				**Open**

DMX CHANNEL	2	Parameter: **DIMMER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional dimmer**

DMX CHANNEL	3	Parameter: **RED**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	4	Parameter: **GREEN**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	5	Parameter: **BLUE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	6	Parameter: **WHITE (Pre-programmed White at diff. color temperature)**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-55	**23**				**No Function**
56-105	**80**				**Full (Red-Green-Blue at Full)**
106-155	**130**				**White DTS**

IF CHANNEL 9 (FUNCTIONS) = CUSTOM WHITE RECALL (Dmx range value 0 - 79)

156-205	**180**	**Custom White Recall**
206-255	**225**	**White CTC (Channel 7 CTC enabled 256 color temp. Correction Macros: 2800°K-6500°K)**

IF CHANNEL 9 (FUNCTIONS) = CUSTOM WHITE CREATE (Dmx range value 80 - 160)

156-205	**180**	**Custom White Create (RGB levels selectable by DMX)**
206-255	**225**	**White CTC (Channel 7 CTC enabled 256 color temp. Correction Macros: 2800°K-6500°K)**

DMX CHANNEL	7	Parameter: **CTC (Color temperature correction)**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function

IF CHANNEL 6 (White) = WHITE CTC (Dmx range value 206 - 255)

0-255	**256 color temp. Correction Macros: 0 = 2800°K / 128 = 4500°K / 255 = 6500°K**

IF CHANNEL 6 (White) = NO FUNCTION (Dmx range value 0 - 55)

0-255	**No Function**

DMX CHANNEL	8	Parameter: **COLOUR MACROS**

IF:

PLEASE CHECK PAGE 11

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-14					**No Function**
15-29					**Macro 1**
30-44					**Macro 2**
45-59					**Macro 3**
60-74					**Macro 4**
75-89					**Macro 5**
90-104					**Macro 6**
105-119					**Macro 7**
120-134					**Macro 8**
135-149					**Macro 9**
150-164					**Macro 10**
165-179					**Macro 11**
180-194					**Macro 12**
195-209					**Macro 13**
210-225					**Macro 14**
226-239					**Macro 15**
240-255					**Macro 16**

DMX CHANNEL	8	Parameter: **COLOUR MACROS**

IF:

PLEASE CHECK PAGE 11

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-14					**No Function**
15-22					**Macro 1**
23-30					**Macro 2**
31-38					**Macro 3**
39-46					**Macro 4**
47-54					**Macro 5**
55-62					**Macro 6**
63-70					**Macro 7**
71-78					**Macro 8**
79-86					**Macro 9**
87-94					**Macro 10**
95-102					**Macro 11**
103-110					**Macro 12**
111-118					**Macro 13**
119-126					**Macro 14**
127-134					**Macro 15**
135-142					**Macro 16**

DMX CHANNEL	8	Parameter: **COLOUR MACROS**

IF:

PLEASE CHECK PAGE 11

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
143-150					**Rainbow Speed 1 (1 Sec.)**
151-158					**Rainbow Speed 2 (5 Sec.)**
159-166					**Rainbow Speed 3 (10 Sec.)**
167-174					**Rainbow Speed 4 (20 Sec.)**
175-182					**Rainbow Speed 5 (30 Sec.)**
183-190					**Rainbow Speed 6 (60 Sec.)**
191-198					**Rainbow Speed 7 (120 Sec.)**
199-206					**Rainbow Speed 8 (180 Sec.)**
207-214					**Random Speed 1 (0.5 sec.)**
215-222					**Random Speed 2 (1 Sec.)**
223-230					**Random Speed 3 (2 Sec.)**
231-238					**Random Speed 4 (5 Sec.)**
239-246					**Random Speed 5 (10 Sec.)**
247-255					**Random Speed 6 (30 Sec.)**

DMX CHANNEL	9	Parameter: **FUNCTIONS (Recall,Create and Store the Custom white)**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-79		**Custom White Recall (Enable CH 7 for Custom white Recall)**			
80-160		**Custom White Create (Enable CH 7 for Custom white Creation)**			
161-255		**Custom White Store (Store the Custom White created)**			

"WALL" 6 CHANNELS MODE (For use with DTS Wall mounted DMX controller 0514L007)

1 GREEN
2 RED
3 BLUE
4 DIMMER
5 NOT USED
6 SHUTTER

DMX CHANNEL	1	Parameter: **GREEN**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	2	Parameter: **RED**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	3	Parameter: **BLUE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	4	Parameter: **DIMMER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional dimmer**

DMX CHANNEL	5	Parameter: **NOT USED**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**No Function**

DMX CHANNEL	6	Parameter: **SHUTTER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9	**5**				**Black-out**
10-19	**14**				**Open**
20-29	**24**				**Black-out**
30-119					**Strobe at variable speed from slow to fast (3700ms-20ms)**
120-149					**Pulse open at variable speed from slow to fast (42,6s-100ms)**
150-179					**Pulse close at variable speed from slow to fast (42,6s-100ms)**
180-204	**192**				**Random Strobe (Master and RGB active)**
205-229	**218**				**Random Strobe (Full)**
230-234					**Red, Yellow, Cyan and Blue colour effects at variable speed**
235-255	**245**				**Open**

DMX PROTOCOL

TITAN PLUS SOLO FULL COLOUR

5 CHANNELS MODE (Shutter + Dimmer + RGB)

1 SHUTTER
2 DIMMER
3 RED
4 GREEN
5 BLUE

DMX CHANNEL	1	Parameter: **SHUTTER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9	**5**				**Black-out**
10-19	**14**				**Open**
20-29	**24**				**Black-out**
30-119					**Strobe at variable speed from slow to fast (3700ms-20ms)**
120-149					**Pulse open at variable speed from slow to fast (42,6s-100ms)**
150-179					**Pulse close at variable speed from slow to fast (42,6s-100ms)**
180-204	**192**				**Random Strobe (Master and RGB active)**
205-229	**218**				**Random Strobe (Full)**
230-234					**Red, Yellow, Cyan and Blue colour effects at variable speed**
235-255	**245**				**Open**

DMX CHANNEL	2	Parameter: **DIMMER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional dimmer**

DMX CHANNEL	3	Parameter: **RED**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	**4**	Parameter: **GREEN**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	**5**	Parameter: **BLUE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX PROTOCOL

TITAN PLUS SOLO FULL COLOUR

M3CH mode (4 DMX channels; Dimmer + RGB)

1 DIMMER
2 RED
3 GREEN
4 BLUE

DMX CHANNEL	**1**	Parameter: **DIMMER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional dimmer**

DMX CHANNEL	**2**	Parameter: **RED**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	**3**	Parameter: **GREEN**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	**4**	Parameter: **BLUE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX PROTOCOL

TITAN PLUS SOLO FULL COLOUR

RGB mode (3 DMX channels)

1 RED
2 GREEN
3 BLUE

DMX CHANNEL	**1**	Parameter: **RED**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	**2**	Parameter: **GREEN**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	**3**	Parameter: **BLUE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX PROTOCOL

TITAN PLUS SOLO RGBA / WHITE

10 CHANNELS MODE (Default)

1 **SHUTTER**
2 **DIMMER**
3 **RED**
4 **GREEN**
5 **BLUE**
6 **AMBER**
7 **WHITE (Pre-programmed whites at different colour temperatures)**
8 **CTC**
9 **COLOURS MACRO**
10 **FUNCTIONS**

DMX CHANNEL	1	Parameter: **SHUTTER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9	**5**				**Black-out**
10-19	**14**				**Open**
20-29	**24**				**Black-out**
30-119					**Strobe at variable speed from slow to fast (3700ms-20ms)**
120-149					**Pulse open at variable speed from slow to fast (42,6s-100ms)**
150-179					**Pulse close at variable speed from slow to fast (42,6s-100ms)**
180-204	**192**				**Random Strobe (Master and RGB active)**
205-229	**218**				**Random Strobe (Full)**
230-234					**Red, Yellow, Cyan and Blue colour effects at variable speed**
235-255	**245**				**Open**

DMX CHANNEL	2	Parameter: **DIMMER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional dimmer**

DMX CHANNEL	3	Parameter: **RED**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	4	Parameter: **GREEN**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	5	Parameter: **BLUE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	6	Parameter: **AMBER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	7	Parameter: **WHITE (Pre-programmed White at diff. color temperature)**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-55	**23**				**No Function**
56-105	**80**				**Full (Red-Green-Blue at Full)**
106-155	**130**				**White DTS**

IF CHANNEL 10 (FUNCTIONS) = CUSTOM WHITE RECALL (Dmx range value 0 - 79)

156-205	**180**	**Custom White Recall**
206-255	**225**	**White CTC (Channel 8 CTC enabled 256 color temp. Correction Macros: 2800°K-6500°K)**

IF CHANNEL 10 (FUNCTIONS) = CUSTOM WHITE CREATE (Dmx range value 80 - 160)

156-205	**180**	**Custom White Create (RGB levels selectable by DMX)**
206-255	**225**	**White CTC (Channel 8 CTC enabled 256 color temp. Correction Macros: 2800°K-6500°K)**

DMX CHANNEL	8	Parameter: **CTC (Color temperature correction)**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function

IF CHANNEL 7 (White) = WHITE CTC (Dmx range value 206 - 255)

0-255	**256 color temp. Correction Macros: 0 = 2800°K / 128 = 4500°K / 255 = 6500°K**

IF CHANNEL 7 (White) = NO FUNCTION (Dmx range value 0 - 43)

0-255	**No Function**

DMX CHANNEL	9	Parameter: **COLOUR MACROS**

IF: MENU Up-Down nOdE ENTER Up-Down nACr ENTER Up-Down Std ENTER **PLEASE CHECK PAGE 16**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-14					**No Function**
15-29					**Macro 1**
30-44					**Macro 2**
45-59					**Macro 3**
60-74					**Macro 4**
75-89					**Macro 5**
90-104					**Macro 6**
105-119					**Macro 7**
120-134					**Macro 8**
135-149					**Macro 9**
150-164					**Macro 10**
165-179					**Macro 11**
180-194					**Macro 12**
195-209					**Macro 13**
210-225					**Macro 14**
226-239					**Macro 15**
240-255					**Macro 16**

DMX CHANNEL	9	Parameter: **COLOUR MACROS**

IF: **PLEASE CHECK PAGE 16**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-14					**No Function**
15-22					**Macro 1**
23-30					**Macro 2**
31-38					**Macro 3**
39-46					**Macro 4**
47-54					**Macro 5**
55-62					**Macro 6**
63-70					**Macro 7**
71-78					**Macro 8**
79-86					**Macro 9**
87-94					**Macro 10**
95-102					**Macro 11**
103-110					**Macro 12**
111-118					**Macro 13**
119-126					**Macro 14**
127-134					**Macro 15**
135-142					**Macro 16**
143-150					**Rainbow Speed 1 (1 Sec.)**
151-158					**Rainbow Speed 2 (5 Sec.)**
159-166					**Rainbow Speed 3 (10 Sec.)**
167-174					**Rainbow Speed 4 (20 Sec.)**
175-182					**Rainbow Speed 5 (30 Sec.)**
183-190					**Rainbow Speed 6 (60 Sec.)**
191-198					**Rainbow Speed 7 (120 Sec.)**
199-206					**Rainbow Speed 8 (180 Sec.)**
207-214					**Random Speed 1 (0.5 sec.)**
215-222					**Random Speed 2 (1 Sec.)**
223-230					**Random Speed 3 (2 Sec.)**
231-238					**Random Speed 4 (5 Sec.)**
239-246					**Random Speed 5 (10 Sec.)**
247-255					**Random Speed 6 (30 Sec.)**

DMX CHANNEL	10	Parameter: **FUNCTIONS (Recall,Create and Store the Custom white)**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-79		**Custom White Recall (Enable CH 6 for Custom white Recall)**			
80-160		**Custom White Create (Enable CH 6 for Custom white Creation)**			
161-255		**Custom White Store (Store the Custom White created)**			

DMX PROTOCOL

TITAN PLUS SOLO RGBA / WHITE

6 CHANNELS MODE (Shutter + Dimmer + RGBA)

1 SHUTTER
2 DIMMER
3 RED
4 GREEN
5 BLUE
6 AMBER

DMX CHANNEL	1	Parameter: **SHUTTER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9	**5**				**Black-out**
10-19	**14**				**Open**
20-29	**24**				**Black-out**
30-119					**Strobe at variable speed from slow to fast (3700ms-20ms)**
120-149					**Pulse open at variable speed from slow to fast (42,6s-100ms)**
150-179					**Pulse close at variable speed from slow to fast (42,6s-100ms)**
180-204	**192**				**Random Strobe (Master and RGB active)**
205-229	**218**				**Random Strobe (Full)**
230-234					**Red, Yellow, Cyan and Blue colour effects at variable speed**
235-255	**245**				**Open**

DMX CHANNEL	2	Parameter: **DIMMER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional dimmer**

DMX CHANNEL	3	Parameter: **RED**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	**4**	Parameter: **GREEN**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	**5**	Parameter: **BLUE**

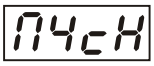
DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	**6**	Parameter: **AMBER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX PROTOCOL

TITAN PLUS SOLO RGBA / WHITE

M4CH mode  (5 DMX channels; Dimmer + RGBA)

1 DIMMER
2 RED
3 GREEN
4 BLUE
5 AMBER

DMX CHANNEL	1	Parameter: **DIMMER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional dimmer**

DMX CHANNEL	2	Parameter: **RED**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	3	Parameter: **GREEN**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	4	Parameter: **BLUE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	5	Parameter: **AMBER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX PROTOCOL

TITAN PLUS SOLO RGBA / WHITE

RGBA mode (4 DMX channels)

1 RED
2 GREEN
3 BLUE
4 AMBER

DMX CHANNEL	1	Parameter: **RED**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	2	Parameter: **GREEN**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	3	Parameter: **BLUE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

DMX CHANNEL	4	Parameter: **AMBER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Proportional colour**

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D.T.S. Illuminazione s.r.l - Via Fagnano Selve 10-12-14 47843 - Misano Adriatico (RN) Italy
Tel. +39 0541 611131 Fax +39 0541 611111 info@dts-lighting.it www.dts-lighting.it